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(71)Applicant: CANON INC

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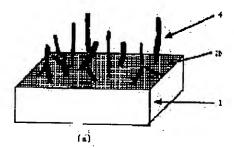
(54) PRODUCTION OF CARBON NANOTUBE

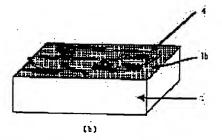
(57) Abstract:

(51)Int.CI.

PROBLEM TO BE SOLVED: To provide a method capable of growing a carbon nanotube uniform in characteristic and directional property at a relatively low temp., and unnecessitating a purifying treatment on a substrate.

SOLUTION: A growth starting area of the carbon nanotube 4 is previously formed on the surface 1b of the substrate 1 and a gaseous starting material containing a starting material for introducing carbon is introduced into a reaction vessel in a state in which the substrate is arranged in the reaction vessel, and the carbon nanotube is formed on the substrate by further generating a plasma by AC glow discharge in the reaction vessel, or the carbon nanotube is grown in narrow pores from growth nuclei at a bottom part of the narrow pores by providing the narrow pores in which the growth nuclei are arranged, and controlling the growth direction at the bottom of the substrate.





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